

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

2. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☒

3. NAME OF OPERATOR

ZINKE & TRUMBO LTD

4. ADDRESS OF OPERATOR

1202 EAST 33RD STREET SUITE 100 TULSA OK, 74105

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements*)

1977' FWL, 536' FSL, SE 1/4, SW 1/4, SEC. 16, T5S, R4W
At proposed prod zone

SAME

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

20 MILES SOUTH AND WEST OF MYTON, UTAH

7. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT
(Also to nearest orig. well line, if any)

536

8. NO. OF ACRES IN LEASE

640

9. DISTANCE FROM PROPOSED*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

1320

10. PROPOSED DEPTH

6200

WSTC

11. NO. OF DEEPS ASSIGNED
TO THIS WELL

40

12. ROTARY OR CABLE TOOLS

ROTARY

13. ELEVATIONS (Show whether DP, RT, GR, etc.)

6430 GR

14. APPROX DATE WORK WILL START*

MAY 1, 1991

15.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WELL DEPTH TO	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2	13 3/8	48	90	TO SURFACE
12 1/4	8 5/8	24	500	TO SURFACE
7 7/8	5 1/5	17	T.D.	CMT TOP TO COVER THE OIL SHALE

OPERATOR REQUESTS PERMISSION TO DRILL THE SUBJECT WELL.
PLEASE SEE THE ATTACHED 10 POINT AND THE 13 POINT SURFACE
USE PLAN.

IF YOU REQUIRE ADDITIONAL INFORMATION PLEASE CONTACT:

WILLIAM A. RYAN
3101 W. 1790 S.
VERNAL UTAH
801-789-3983
801-823-6152

RECEIVED

APR 12 1991

DIVISION OF
OIL GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM. If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

21

WILLIAM A. RYAN

PETROLEUM ENGINEER

DATE - MARCH 20 1991

(This space for Federal or State office use)

PERMIT NO

43 713-31374

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY

STATE
DIVISION OF
OIL GAS & MINING4-18-91
JAN [signature]
6-15-92

T5S, R4W, U.S.B.&M.

ZINKE & TRUMBO, LTD.

Well location, Z&T UTE TRIBAL #14-16, located as shown in the SE 1/4 SW 1/4 of Section 16, T5S, R4W, U.S.B.&M. Duchesne County, Utah.

BASIS OF ELEVATION

BENCH MARK LOCATED IN THE NW 1/4 SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M. TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH - DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6098 FEET.



CERTIFICATE

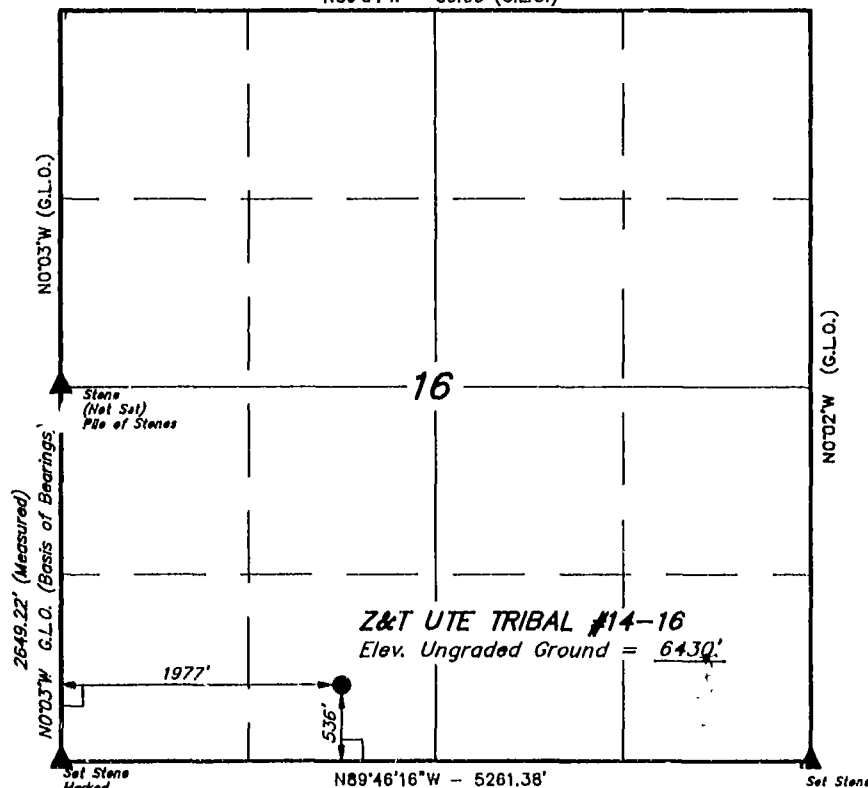
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Key
REGISTERED LAND SURVEYOR
REGISTRATION NO. 8708
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX 1758 - 86 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 2-16-91
PARTY D.A. K.L. R.E.H.	REFERENCES G.L.O. PLAT
WEATHER COLD	FILE ZINKE & TRUMBO, LTD.

N89°54'W - 80.00 (G.L.O.)



▲ = SECTION CORNERS LOCATED.

Ten Point Plan
Zinke & Trumbo LTD.
Z&T Ute Tribal 14-16
SE 1/4, SW 1/4, Sec. 16, T.5 S., R.4 W.

1. Surface Formation:

Uintah

2. Estimated Formation Tops and Datum:

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
Uintah	Surface	6430' GL.
Green River	1212'	5218'
Oil Shale	2420'	4010'
X Marker	4260'	2170'
Black Shale	5036'	1394'
Castle Peak Lime	5340'	1090'
Green River Lime	5756'	674'
Wasatch	5922'	508'
T.D.	6200'	230'

3. Producing Formation Depth:

Formation objective include the Green River and the Wasatch.

4. Proposed Casing Program:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Casing Weight/Ft.</u>	<u>Casing Grade</u>	<u>Casing Coupling</u>	<u>Setting Depth</u>	<u>Casing New/Used</u>
17 1/2	13 3/8	48	H-40	ST&C	90	NEW
12 1/4	8 5/8	24	J-55	ST&C	500	NEW
7 7/8	5 1/2	17	J-55	ST&C	T.D.	Used

5. BOP and Pressure Containment Data:

The anticipated bottom hole pressure is less than 2500 psi.

A 3000 psi WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from the 8-5/8" surface casing. THE BOP system including the casing will be pressure tested to the minimum standards set forth in "On Shore Order #2". The BOPs will be mechanically checked daily during drilling operations.

6. Mud Program:

<u>Interval</u>	<u>Mud Weight</u> <u>lbs./gal.</u>	<u>Viscosity</u> <u>Sec./Qt.</u>	<u>Fluid Loss</u> <u>Ml/30 Mins.</u>	<u>Mud Type</u>
0-500'	Clear Water	----	No Control	Water/Gel
500-T.D.	8.8	30	No Control	5% KCL L.S.N.D.

7. Auxiliary Equipment:

Upper Kelly cock, full opening stabbing valve, 2 1/2" Choke manifold and pit level indicator.

8. Testing, Coring, Sampling and Logging:

- a) Test: None are anticipated.
- b) Coring: There is the possibility of sidewall coring.
- c) Sampling: Every 10' from 500' to T.D.
- d) Logging:

<u>Type</u>	<u>Interval</u>
DLL/SFL WGR and SP	T.D. to surf. csg.
FDC/CNL WGR and CAL	"

9. Abnormalities (including sour gas):

No abnormal pressures, temperatures or other hazards are anticipated. Oil and gas shows may be anticipated in the Green River and Wasatch Formations.

10. Drilling Schedule:

The anticipated starting date is May 1, 1991. Duration of operations is expected to be around 15 days.

ZINKE & TRUMBO LTD.
13 POINT SURFACE USE PLAN
FOR
WELL LOCATION
Z&T UTE TRIBAL 14-16
LOCATED IN
S.E. 1/4, S.W. 1/4
SECTION 16, T.5 S., R.4 W., U.S.B. & M.
DUCHESNE COUNTY, UTAH
LEASE NUMBER: BIA-14-20-H62-3413
SURFACE OWNERSHIP: UTE TRIBE

1. EXISTING ROADS

TO REACH THE ZINKE & TRUMBO LTD. WELL, Z&T Ute Tribal 14-16 LOCATION, IN SECTION 16, T.5 S., R.4 W., FROM MYTON, UTAH.

STARTING IN MYTON, UTAH PROCEED WEST ON US HIGHWAY 40, 8 MILES TO THE ANTELOPE CANYON ROAD. TURN SOUTH AND PROCEED 6.6 MILES TO THE SOWERS CANYON ROAD. TURN RIGHT ON THE SOWERS CANYON ROAD AND PROCEED SOUTH AND WEST 3.7 MILES. TURN SOUTH ON AN OIL FIELD ACCESS ROAD AND PROCEED SOUTH 1.5 MILES TO THE FORK IN THE ROAD. TURN RIGHT AT THE FORK IN THE ROAD AND PROCEED .9 MILES, TURN RIGHT AND TRAVEL .2 MILES TO THE STARTING POINT OF THE NEW ACCESS ROAD.

THE EXISTING OIL FIELD SERVICE ROAD MAY NEED SOME SURFACE MATERIAL TO PREVENT OR REPAIR HOLES IN THE ROAD DUE TO HEAVY TRUCK TRAFFIC DURING THE DRILLING AND COMPLETION OPERATION. IF REPAIRS ARE MADE THE OPERATOR WILL SECURE SURFACING MATERIAL FROM PRIVATE SOURCES.

PLEASE SEE THE ATTACHED MAP FOR ADDITIONAL DETAILS.

2. PLANNED ACCESS ROAD

THERE WILL BE APPROXIMATELY .7 MILES OF NEW ROAD CONSTRUCTION REQUIRED. FIVE TENTHS MILES OF THE ACCESS ROAD WILL BE ON LEASE.

THE PROPOSED ACCESS ROAD WILL BE:

A) APPROXIMATE LENGTH	3690 FT.
B) RIGHT OF WAY WIDTH	30 FT.
C) RUNNING SURFACE	18 FT.
D) SURFACING MATERIAL	NATIVE SOIL.
E) MAXIMUM GRADE	5 %
F) FENCE CROSSINGS	NONE
G) CULVERTS	NONE
H) TURNOUTS	NONE
I) MAJOR CUTS AND FILLS	NONE
J) PROPOSED ROAD FLAGGED	YES
K) ACCESS ROAD SURFACE OWNERSHIP	UTE TRIBE

NEWLY CONSTRUCTED ROADS WILL BE BUILT USING NATIVE SOILS FROM BORROW PITS ON EITHER OR BOTH SIDES OF THE ROAD. THE ROAD WILL BE CROWNED AND DITCHED. DITCHES WILL BE CONSTRUCTED ALONG EITHER SIDE WHERE IT IS DETERMINED NECESSARY TO HANDLE RUN-OFF AND MINIMIZE THE POSSIBILITY OF EROSION.

PLEASE SEE THE ATTACHED LOCATION MAP FOR ADDITIONAL DETAILS.

ACCESS WILL TO THE START OF NEW CONSTRUCTION WILL BE VIA THE RIGHT-OF-WAY GRANTED FOR WELL 14-20 IN SECTION 20, T.5 S., R.4 W.

ALL TRAVEL WILL BE CONTINUED TO EXISTING ACCESS ROAD RIGHT-OF-WAYS.

ACCESS ROADS AND SURFACE DISTURBING ACTIVITIES WILL CONFORM TO STANDARDS OUTLINED IN THE USGS PUBLICATION (1978) SURFACE OPERATION STANDARDS FOR OIL AND GAS DEVELOPMENT.

3. LOCATION OF EXISTING WELLS

THE FOLLOWING WELLS ARE LOCATED WITHIN A ONE MILE RADIUS OF THE LOCATION SITE.

A) PRODUCING WELLS:

WELL 16-16 SECTION 16, T.5 S., R.4 W.
WELL 1-20 SECTION 20, T.5 S., R.4 W.
WELL 8-21 SECTION 21, T.5 S., R.4 W.
WELL 14-15 SECTION 15, T.5 S., R.4 W.
WELL 4-22 SECTION 22, T.5 S., R.4 W.
WELL 2-21 SECTION 21, T.5 S., R.4 W.
WELL 10-12 SECTION 21, T.5 S., R.4 W.

B) WATER WELLS

NONE

C) ABANDONED WELLS:

WELL 7-20 SECTION 20, T.5 S., R.4 W.

D) TEMPORARILY ABANDONED WELLS

NONE

E) DISPOSAL WELLS

NONE

F) DRILLING WELLS

NONE

G) SHUT IN WELLS

NONE

H) INJECTION WELLS

NONE

I) MONITORING OR OBSERVATION WELLS

NONE

PLEASE SEE THE ATTACHED MAP FOR ADDITIONAL DETAILS.

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION GATHERING AND SERVICE LINES.

ALL PRODUCTION FACILITIES ARE TO BE CONTAINED WITHIN THE PROPOSED LOCATION SITE. PLEASE SEE THE ATTACHED PLOT PLAN FOR A TYPICAL PUMP JACK, LINE HEATER AND SEPARATOR INSTALLATION AND WELL SITE PIPING CONNECTION. THE PRODUCTION TANKS WILL BE PLACED BETWEEN POINTS 4 & 5.

ALL PERMANENT (ON SITE FOR SIX MONTHS OR LONGER) STRUCTURES CONSTRUCTED OR INSTALLED WILL BE PAINTED A DESERT BROWN COLOR. ALL FACILITIES WILL BE PAINTED WITHIN SIX MONTHS OF INSTALLATION. FACILITIES REQUIRED TO COMPLY WITH O.S.H.A. (OCCUPATIONAL SAFETY AND HEALTH ACT) WILL BE EXCLUDED. THE REQUIRED PAINT COLOR IS DESERT BROWN (10 YR. 6/4)

THE TANK BATTERY WILL BE SURROUNDED BY A DIKE OF SUFFICIENT CAPACITY TO CONTAIN THE STORAGE CAPACITY OF THE LARGEST TANK IN THE BATTERY. THE INTEGRITY OF THE DIKE WILL BE MAINTAINED.

ALL LOAD LINES WILL BE PLACED INSIDE THE DIKE SURROUNDING THE TANK BATTERY.

ALL SITE SECURITY GUIDELINES IDENTIFIED IN 43 CFR 3162.7 REGULATION WILL BE ADHERED TO.

ALL OFF-LEASE STORAGE, OFF LEASE MEASUREMENT, OR COMMINGLING ON-LEASE OR OFF-LEASE WILL HAVE PRIOR WRITTEN APPROVAL FROM THE AUTHORIZED OFFICER.

GAS METER RUNS WILL BE LOCATED WITHIN 500' OF THE WELL HEAD. THE GAS LINE WILL BE BURIED, OR ANCHORED DOWN FROM THE WELL HEAD TO THE METER. METER RUNS WILL BE HOUSED AND/OR FENCED.

THE GAS METER WILL BE CALIBRATED AND THE TANK STRAPPED IN PLACE PRIOR TO ANY DELIVERIES. TESTS FOR METER ACCURACY WILL BE CONDUCTED MONTHLY FOR THE FIRST THREE MONTHS ON NEW METER INSTALLATIONS AND AT LEAST QUARTERLY THEREAFTER. THE AUTHORIZED OFFICER WILL BE PROVIDED WITH A DATE AND TIME FOR THE INITIAL METER CALIBRATION AND ALL FUTURE METER PROVING SCHEDULES. A COPY OF THE METER CALIBRATION REPORTS WILL BE SUBMITTED TO THE VERNAL DISTRICT OFFICE. ALL MEASUREMENT FACILITIES WILL CONFORM WITH API AND AGA STANDARDS FOR GAS AND LIQUID HYDROCARBON MEASUREMENT.

5. LOCATION AND TYPE OF WATER SUPPLY

WATER FOR THIS WELL WILL BE HAULED BY TRUCK FROM JIM NEBEKER'S (JOE SHIELDS) POND.

6. SOURCE OF CONSTRUCTION MATERIALS

ALL CONSTRUCTION MATERIAL FOR THIS LOCATION SITE AND ACCESS ROAD SHALL BE BORROW MATERIAL ACCUMULATED DURING CONSTRUCTION OF THE LOCATION SITE AND ACCESS ROAD. ADDITIONAL ROAD GRAVELS OR PIT LINING MATERIAL WILL BE OBTAINED FROM PRIVATE SOURCES.

7. METHODS FOR HANDLING WASTE DISPOSAL

A) PIT CONSTRUCTION AND LINERS:

THE RESERVE PIT WILL BE APPROXIMATELY 9 FT. DEEP AND AT LEAST ONE-HALF OF THIS DEPTH SHALL BE BELOW THE SURFACE OF THE EXISTING GROUND.

THE RESERVE PIT WILL BE LINED WITH A 12 MIL PIT LINER. THE PIT LINER WILL BE TORN AND PERFORATED AFTER THE PIT DRIES AND BEFORE BACK FILLING THE RESERVE PIT. THE RESERVE PIT WILL BE REASONABLY FREE OF HYDROCARBONS BEFORE THE PIT IS BACK FILLED.

ONE-HALF OF THE RESERVE PIT WILL BE USED AS A FRESH WATER STORAGE AREA DURING THE DRILLING OF THIS WELL AND THE OTHER ONE-HALF WILL BE USED TO STORE NON-FLAMMABLE MATERIALS SUCH AS CUTTINGS, SALTS, DRILLING FLUIDS, CHEMICALS, PRODUCED FLUIDS, ETC.

B) PRODUCED FLUIDS:

PRODUCED WATER WILL BE CONFINED TO THE RESERVE PIT, OR IF DEEMED NECESSARY, A STORAGE TANK FOR A PERIOD NOT TO EXCEED 90 DAYS AFTER INITIAL PRODUCTION. DURING THE 90 DAY PERIOD AN APPLICATION FOR APPROVAL FOR A PERMANENT DISPOSAL METHOD AND LOCATION WILL BE SUBMITTED TO THE AUTHORIZED OFFICER.

C) GARBAGE:

A TRASH CAGE, FABRICATED FROM EXPANDED METAL WILL BE USED TO HOLD TRASH ON LOCATION AND WILL BE REMOVED TO AN AUTHORIZED LAND FILL LOCATION.

D) SEWAGE:

A PORTABLE CHEMICAL TOILET WILL BE SUPPLIED FOR HUMAN WASTE.

E) SITE CLEAN-UP:

AFTER THE RIG IS MOVED OUT THE AREA AROUND THE WELL SITE WILL BE CLEANED AND ALL REFUSE REMOVED.

8. ANCILLARY FACILITIES

THERE ARE NO ANCILLARY FACILITIES PLANNED FOR AT THIS TIME AND NONE ARE FORESEEN FOR THE FUTURE.

9. WELL-SITE LAYOUT

LOCATION DIMENSIONS ARE AS FOLLOW:

A) PAD LENGTH	300 FT.
B) PAD WIDTH	140 FT.
C) PIT DEPTH	9 FT.
D) PIT LENGTH	200 FT.
E) PIT WIDTH	75 FT.
F) MAX CUT	12 FT.
G) MAX FILL	7.8 FT.
E) TOTAL CUT YDS	8,530 CU. YDS.
F) PIT LOCATION	SOUTHWEST BETWEEN POINTS 4 & 5
G) TOP SOIL LOCATION	ON THE SOUTH SIDE BETWEEN POINT 1 & 2
H) ACCESS ROAD LOCATION	ON THE WEST END BETWEEN 2 & 3

PLEASE SEE THE ATTACHED LOCATION DIAGRAM FOR ADDITIONAL DETAILS.

ALL PITS WILL BE FENCED ACCORDING TO THE FOLLOWING MINIMUM STANDARDS:

- A) 39 INCH NET WIRE SHALL BE USED WITH AT LEAST ONE STRAND OF WIRE ON TOP OF THE NET WIRE (BARBED WIRE IS NOT NECESSARY IF PIPE OR SOME TYPE OF REINFORCEMENT ROD IS ATTACHED TO THE TOP OF THE ENTIRE FENCE).
- B) THE NET WIRE SHALL BE NO MORE THAN 2 INCHES ABOVE THE GROUND. THE BARBED WIRE SHALL BE 3 INCHES ABOVE THE NET WIRE. TOTAL HEIGHT OF THE FENCE SHALL BE AT LEAST 42 INCHES.
- C) CORNER POSTS SHALL BE CEMENTED AND/OR BRACED IN SUCH A MANNER TO KEEP THE FENCE TIGHT AT ALL TIMES.
- D) STANDARD STEEL, WOOD OR PIPE POSTS SHALL BE USED BETWEEN THE CORNER BRACES. MAXIMUM DISTANCE BETWEEN ANY TWO POSTS SHALL BE NO GREATER THAN 16 FEET.
- E) ALL WIRE SHALL BE STRETCHED, BY USING A STRETCHING DEVICE, BEFORE IT IS ATTACHED TO THE CORNER POSTS.

10. PLANS FOR RESTORATION OF THE SURFACE

PRIOR TO CONSTRUCTION OF THE LOCATION, THE TOP 6 INCHES OF SOIL MATERIAL WILL BE STRIPPED AND STOCKPILED. THIS WILL AMOUNT TO APPROXIMATELY 1,000 CUBIC YARDS OF MATERIAL. PLACEMENT OF THE TOP SOIL IS NOTED ON THE ATTACHED LOCATION PLAT. WHEN ALL DRILLING AND COMPLETION ACTIVITIES HAVE BEEN COMPLETED THE UNUSED PORTION OF THE LOCATION (THE AREA OUT SIDE THE DEAD MEN) WILL BE RECONTOURED AND THE TOPSOIL SPREAD OVER THE DISTURBED AREA.

THE DIRT CONTRACTOR WILL BE PROVIDED WITH AN APPROVED COPY OF THE SURFACE USE PLAN PRIOR TO CONSTRUCTION ACTIVITIES.

ANY DRAINAGE REROUTED DURING THE CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO IT'S ORIGINAL LINE OF FLOW OR AS NEAR AS POSSIBLE.

ALL DISTURBED AREAS WILL BE RECONTOURED TO THE APPROXIMATE NATURAL CONTOURS.

PRIOR TO BACK FILLING THE PIT THE FENCES AROUND THE RESERVE PIT WILL BE REMOVED. THE PIT LINER WILL BE CUT OFF AT THE WATER OR MUD LINE AND DISPOSED OF AT AN APPROVED LAND FILL SITE. THE LINER WILL ALSO BE TORN AND PERFORATED AFTER THE PIT DRIES AND BEFORE BACK FILLING OF THE RESERVE PIT.

THE RESERVE PIT WILL BE RECLAIMED WITHIN 90 DAYS OF WELL COMPLETION. IF THE RESERVE PIT IS NOT DRY ENOUGH TO ALLOW BACK FILLING AN EXTENSION ON THE TIME REQUIREMENT FOR BACK FILLING THE PIT WILL BE REQUESTED. ONCE RECLAMATION ACTIVITIES HAVE BEGUN, THEY SHALL BE COMPLETED WITHIN 30 DAYS.

AFTER THE RESERVE PIT HAS BEEN RECLAIMED NO DEPRESSIONS IN THE SOIL COVERING THE RESERVE PIT WILL BE ALLOWED. THE OBJECTIVE IS TO KEEP SESONAL RAIN FALL AND RUN OFF FROM SEEPING INTO THE SOIL USED TO COVER THE RESERVE PIT. DIVERSION DITCHES AND WATER BARS WILL BE USED TO DIVERT RUN OFF AS NEEDED.

WHEN RESTORATION ACTIVITIES HAVE BEEN COMPLETED, THE LOCATION SITE AND NEW ACCESS ROAD CUTS AND SHOULDERS SHALL BE RESEEDED. PRIOR TO RESEEDING, ALL DISTURBED AREAS, INCLUDING THE OLD ACCESS ROAD, WILL BE SCARIFIED AND LEFT WITH A ROUGH SURFACE.

A) RECOMMENDED SEED MIXTURE:

RUSSIAN RYE	6# PER ACRE.
FAIRWAY CRESTED WHEAT GRASS	6# PER ACRE.

B) SEEDING DATES:

AFTER SEPTEMBER 15, 1991 AND BEFORE THE GROUND FREEZES.

SEED WILL BE BROADCAST OR DRILLED AT THE TIME SPECIFIED BY THE BLM. IF BROADCAST, A HARROW OR SOME OTHER IMPLEMENT WILL BE DRAGGED OVER THE SEEDED AREA TO ASSURE SEED COVERAGE AND THE SEED MIXTURE WILL BE PROPORTIONATELY LARGER (DOUBLE THE LBS. PER ACRE).

AT SUCH TIME AS THE WELL IS PLUGGED AND ABANDONED THE OPERATOR WILL SUBMIT A SURFACE RECLAMATION PLAN TO THE SURFACE MANAGEMENT AGENCY FOR PRESCRIBED SEED MIXTURE AND RESEEDING REQUIREMENTS.

11. SURFACE OWNERSHIP:

THE UTE TRIBE

12. OTHER INFORMATION

A) VEGETATION:

THE VEGETATION COVERAGE IS SLIGHT. WITH THE MAJORITY MADE UP OF RABBIT, SAGE, AND BITTER BRUSH. ALSO FOUND ON THE LOCATION IS PRICKLY PAIR, INDIAN RICE GRASS AND YUCCA.

B) DWELLINGS:

THERE ARE NO OCCUPIED DWELLINGS, OR OTHER FACILITIES WITHIN A ONE MILE RADIUS OF THIS LOCATION.

C) ARCHEOLOGY:

THE LOCATION HAS BEEN SURVEYED AND THERE ARE NO ARCHAEOLOGICAL HISTORICAL, OR CULTURAL SITES NEAR THE PROPOSED SITE. PLEASE SEE THE ATTACHED ARCHAEOLOGICAL CLEARANCE MAP.

IF, DURING OPERATIONS, ANY ARCHAEOLOGICAL OR HISTORICAL SITES, OR ANY OBJECTS OF ANTIQUITY (SUBJECT TO THE ANTIQUITIES ACT OF JUNE 8, 1906) ARE DISCOVERED, ALL OPERATIONS WHICH WOULD AFFECT SUCH SITES ARE TO BE SUSPENDED AND THE DISCOVERY REPORTED PROMPTLY TO THE SURFACE MANAGEMENT AGENCY.

D) WATER:

THE NEAREST WATER IS IN THE BOTTOM OF SOWERS CANYON 1.5 MILES TO THE NORTH.

E) WOOD:

A WOOD PERMIT WILL BE REQUIRED FOR THIS LOCATION. APPROXIMATELY 3 CORDS OF FIRE WOOD.

F) SIGNS:

THE APPROPRIATE SIGNS HAVE BEEN POSTED OR WILL BE WHEN CONSTRUCTION ACTIVITIES START.

F) CHEMICALS:

NO PESTICIDES, HERBICIDES OR OTHER POSSIBLE HAZARDOUS CHEMICALS SHALL BE USED WITHOUT PRIOR APPLICATION.

G) NOTIFICATION:

a) BLM, VERNAL UT
RALPH BROWN
(801-789-1362)
24 TO 48 HOURS BEFORE CONSTRUCTION OF THE LOCATION.
ALSO AFTER SITE CONSTRUCTION AND BEFORE THE RIG MOVES IN.

b) BIA, FT. DUCHESNE UT
ROLAND MCCOOK
(801-722-2406)
24 TO 48 HOURS BEFORE CONSTRUCTION OF THE LOCATION.
ALSO AFTER SITE CONSTRUCTION AND BEFORE THE RIG MOVES IN.

c) UTE TRIBE, MINERALS DIVISION, FT. DUCHESNE
FERRON SECAKUKU
(801-722-4992)
24 TO 48 HOURS BEFORE CONSTRUCTION OF THE LOCATION.
ALSO AFTER SITE CONSTRUCTION AND BEFORE THE RIG MOVES IN.

H) FLARE PIT:

THE FLARE PIT WILL BE LOCATED A MINIMUM OF 30 FEET FROM THE RESERVE PIT FENCE AND 100 FEET FROM THE BORE HOLE ON THE NORTH EAST SIDE OF THE LOCATION, BETWEEN POINTS 5 AND 6 ON THE LOCATION PLAT. ALL FLUIDS WILL BE REMOVED FROM THE PIT WITHIN 48 HOURS OF OCCURRENCE.

I) GRAZING PERMITTEE:

UTE TRIBAL LIVE STOCK ENTERPRISES
FT. DUCHESNE UT
(801-722-2406)

12. LESSEES OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION

A) REPRESENTATIVE

NAME: WILLIAM A. RYAN

ADDRESS: ROCKY MOUNTAIN CONSULTING
3101 WEST 1790 SOUTH
VERNAL UTAH 84078

TELEPHONE NO.: 801-789-3983
801-823-6152

ALL LEASE AND/OR UNIT OPERATIONS WILL BE CONDUCTED IN SUCH A MANNER THAT FULL COMPLIANCE IS MADE WITH ALL APPLICABLE LAWS, REGULATIONS, ONSHORE OIL AND GAS ORDERS, THE APPLICABLE LAWS, REGULATIONS, AND ANY APPLICABLE NOTICES TO LESSEES. THE OPERATOR IS FULLY RESPONSIBLE FOR THE ACTIONS OF HIS SUBCONTRACTORS. A COPY OF THESE CONDITIONS WILL BE FURNISHED TO THE FIELD REPRESENTATIVE TO INSURE COMPLIANCE.

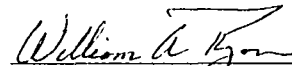
THIS DRILLING PERMIT WILL BE VALID FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL. AFTER PERMIT TERMINATION, A NEW APPLICATION WILL BE FILED FOR APPROVAL FOR ANY FUTURE OPERATIONS.

B) CERTIFICATION

I HEREBY CERTIFY THAT I, OR PERSONS UNDER MY DIRECT SUPERVISION, HAVE INSPECTED THE PROPOSED DRILL-SITE AND ACCESS ROUTE; THAT I AM FAMILIAR WITH THE CONDITIONS WHICH PRESENTLY EXIST; THAT THE STATEMENT MADE IN THIS PLAN ARE, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE AND CORRECT; AND THAT THE WORK ASSOCIATED WITH THE OPERATION PROPOSED HEREIN WILL BE PERFORMED BY ZINKE & TRUMBO LTD. AND ITS CONTRACTORS AND SUB-CONTRACTORS IN CONFORMITY WITH THIS PLAN AND TERMS AND CONDITIONS WITH THIS PLAN AND THE TERMS AND CONDITIONS UNDER WHICH IT IS APPROVED.

DATE

4/4/91



WILLIAM A. RYAN
PETROLEUM ENGINEER
ROCKY MOUNTAIN CONSULTING

Self-Certification Statement

The following self-certification statement is provided per Federal requirements dated June 15, 1988.

Please be advised that Zinke & Trumbo LTD is considered to be the operator of the following well:

Well Z&T Ute Tribal 12-22
NW1/4,SW1/4,Sec.22,T.5 S.,R.4 W.
Lease BIA-14-20-H62-3415
Duchesne County, Utah

Well Z&T Ute Tribal 16-21
SE1/4,SE1/4,Sec.21,T.5 S.,R.4 W.
Lease BIA-14-20-H62-3414
Duchesne County, Utah

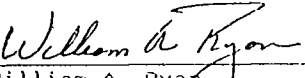
Well Z&T Ute Tribal 4-21
NW1/4,NW1/4,Sec.21,T.5 S.,R.4 W.
Lease BIA-14-20-H62-3414
Duchesne County, Utah

Well Z&T Ute Tribal 2-21C
NW1/4,NE1/4,Sec.21,T.5 S.,R.4 W.
Lease BIA-14-20-H62-3414
Duchesne County, Utah

Well Z&T Ute Tribal 14-16
SE1/4,SW1/4,Sec.16,T.5 S.,R.4 W.
Lease BIA-14-20-H62-3413
Duchesne County, Utah

Well Z&T Ute Tribal 7-25
SW1/4,NE1/4,Sec.25,T.5 S.,R.4 W.
Lease BIA-14-20-H62-3537
Duchesne County, Utah

Zinke & Trumbo LTD is responsible under the terms and conditions of the lease for the operations conducted upon the lease lands".



William A. Ryan
Rocky Mountain Consulting
3101 W. 1790 S.
Vernal, Utah 84078
801-789-3983
801-823-6152

RECEIVED

ZINKE & TRUMBO, LTD.

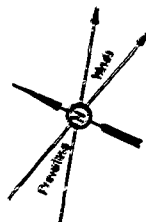
LOCATION LAYOUT FOR

Z&T UTE TRIBAL #14-16

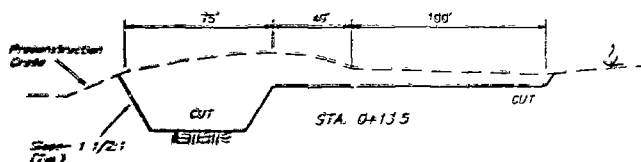
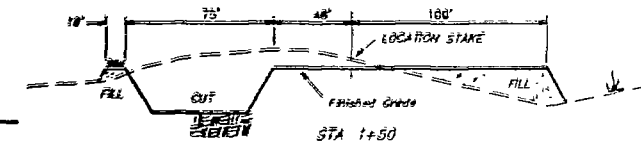
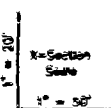
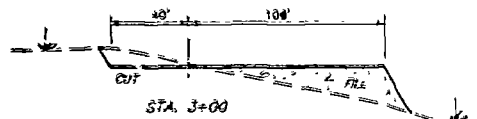
SECTION 16, T5S, R4W, U.S.B.&M.

APR 12 1991

**DIVISION OF
OIL GAS & MINING**



SCALE: 1" = 50'
DATE: 2-18-91
DRAWN BY: T.B.M.

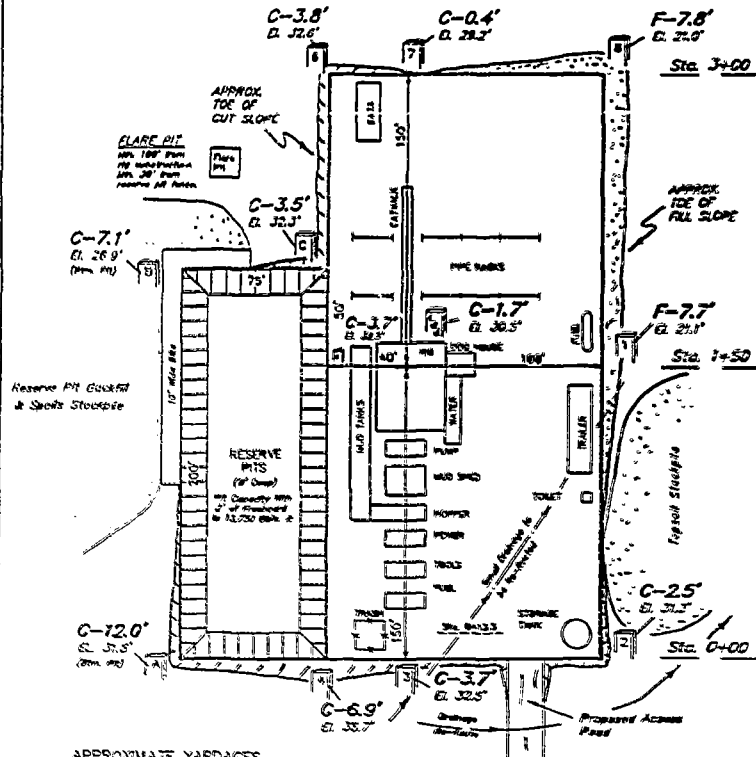


**TYP. CROSS
SECTION
LAYOUT**

Exc. Ungraded Ground at Location Stake = 6430.5'

Exc. Graded Ground at Location Stake = 6428.8'

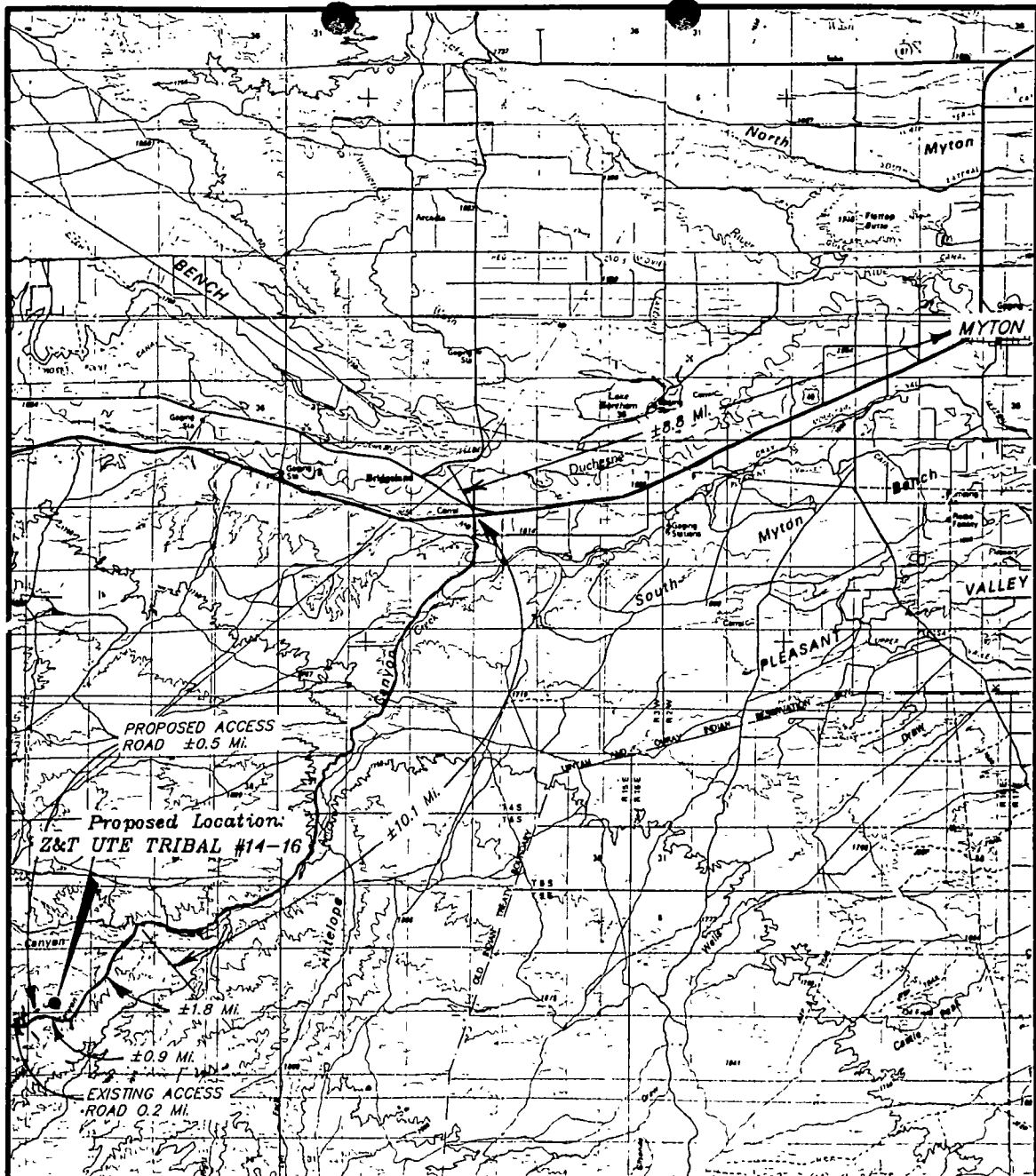
UNITATE ENGINEERING & LAND SURVEYING
P.O. Box 200 East Tormal, Utah



APPROXIMATE YARDAGES

CUT (12") Topsoil Stripping	= 2,170 Cu. Yds.
Remaining Location	= 5,420 Cu. Yds.
TOTAL CUT	= 8,530 CU.YDS.
FILL	= 4,200 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 4,770 Cu. Yds.
Topsoil & PR Backfill (1/2 Pit Vol.)	= 3,950 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 180 Cu. Yds.



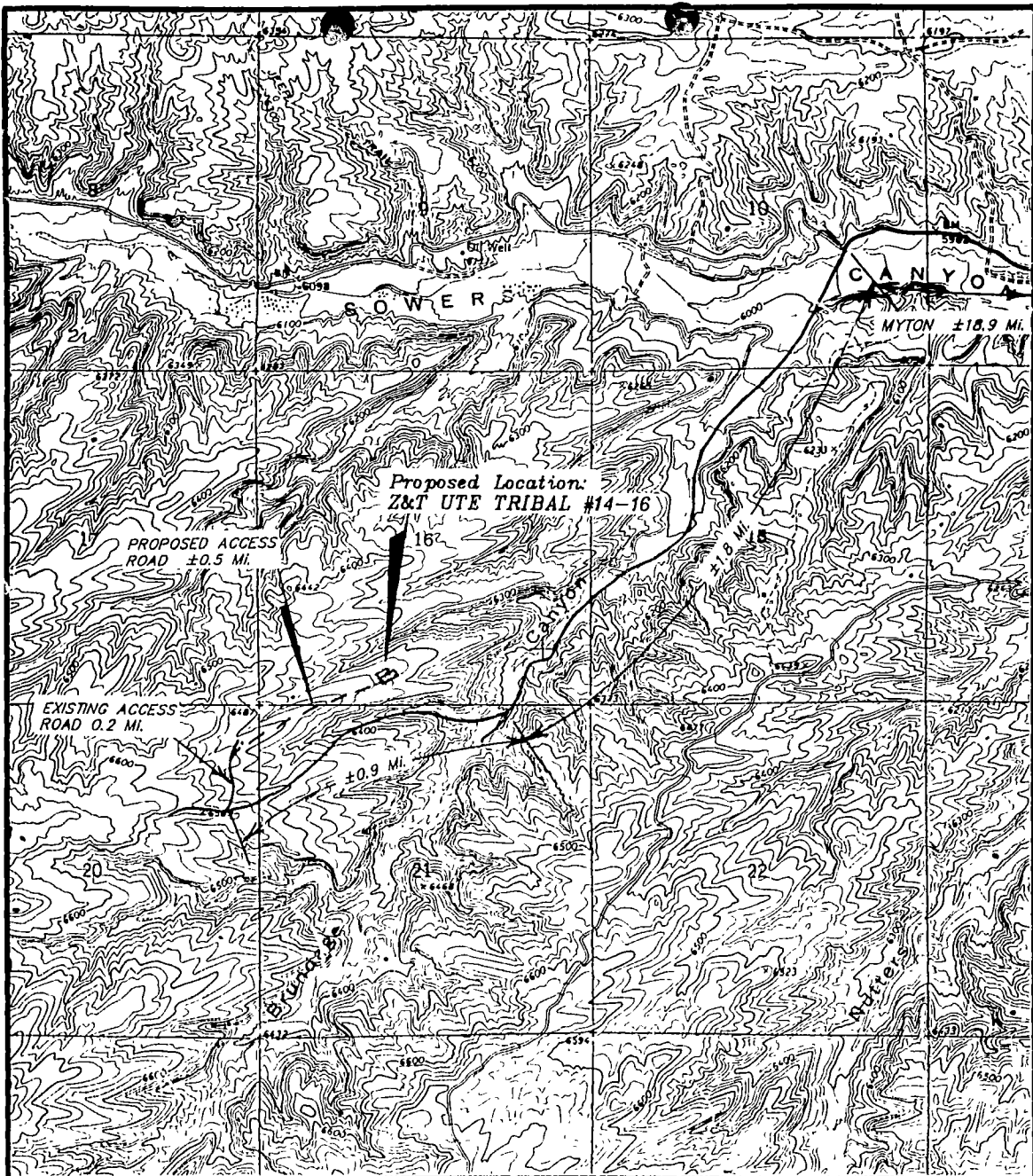
PROPOSED ACCESS
ROAD ± 0.5 Mi.

Proposed Location:
Z&T UTE TRIBAL #14-16

EXISTING ACCESS
ROAD 0.2 Mi.

ZINKE & TRUMBO, LTD.

Z&T UTE TRIBAL #14-16
SECTION 16, T5S, R4W, U.S.B.&M.



TOPOGRAPHIC
MAP "B"

SCALE 1" = 2000'

DATE: 2-16-91



ZINKE & TRUMBO, LTD.

Z&T UTE TRIBAL #14-16
SECTION 16, T5S, R4W, U.S.B.&M.

OPERATOR Zinke Plumbro Pct N-7095 DATE 4-17-91
WELL NAME 3rd Wt Plumbro 14-16
SEC 5E9W 16 T 5S R 4W COUNTY Duchene

43-013-31309
API NUMBER

(Indian (2))
TYPE OF LEASE

CHECK OFF:

☒ PLAT.

☒ BOND

☒ NEAREST
WELL

☒ LEASE

☒ FIELD
550m

☒ POTASH OR
OIL SHALE

PROCESSING COMMENTS:

falls within state guidelines, see plat for addl well
water permit

APPROVAL LETTER:

SPACING: ☐ R615-2-3

N/A
UNIT

☒ R515-3-2

☐

N/A
CAUSE NO. & DATE

☐ R615-3-3

STIPULATIONS:

1- water permit needed
cc BTA



Norman H. Bangert

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

April 18, 1991

Zinke & Trumbo, Ltd.
1202 East 33rd Street, Suite 100
Tulsa, Oklahoma 74105

Gentlemen:

Re: Z & T Ute Tribal 14-16 Well, 536 feet from the South line, 1977 feet from the West line, SE SW, Section 16, Township 5 South, Range 4 West, Duchesne County, Utah

Approval to drill the referenced well is hereby granted in accordance with R615-3-2, Oil and Gas Conservation General Rules, subject to the following stipulation:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Utah Code Ann. Section 73-3, Appropriation.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of Entity Action Form 6, within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification in the event it is necessary to plug and abandon the well. Notify R. J. Firth, Associate Director, (Office) (801) 538-5340, (Home) 571-6068, or J. L. Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Utah Admin. R.615-3-20, Gas Flaring or Venting.

Page 2
Zinke & Trumbo, Ltd.
Z & T Ute Tribal 14-16
April 18, 1991

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of Drinking Water/Sanitation, telephone (801) 538-6159.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-013-31309.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

tas
Enclosures
cc: Bureau of Land Management
Bureau of Indian Affairs
J. L. Thompson
we14/1-6